

Aaron Klug, 92, Dies; His 3-D Images of Bodily Molecules Won a Nobel

By **Kenneth Chang**

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Aaron Klug, who won the Nobel Prize in Chemistry in 1982 for devising ways to create three-dimensional images of biological molecules like proteins and DNA, died on Nov. 20. He was 92.

His death was reported by British newspapers and by the Medical Research Council's Laboratory of Molecular Biology in Cambridge, England, where Dr. Klug had worked for decades. It did not say where he died.

Trained as a physicist, Dr. Klug — Lithuanian-born and raised in South Africa — became interested in the 1960s in how techniques to discern the structure of crystals could be applied to biology. Initially he bounced X-rays off biological molecules, but in the mid-1960s he switched to electrons.

Electron microscopy can make out tiny features as small as atoms, but it requires that samples be placed in a vacuum — an unfriendly environment for almost all components of living organisms.

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